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Preface

Web languages present challenges and opportunities for the Formal Methods community. On one hand, Web technologies based on XML can provide good infrastructure for developing tools and environments for formal software designs because they allow sharing design models and provide various links among the models. On the other hand, formal methods and tools can be applied to the Web-Service/Semantic-Web domain, and may provide sound semantics/extensions and tools support for various Web languages and techniques, such as WSDL, OWL-S, SWRL, etc. The Workshop on Web Languages and Formal Methods (WLFM 05) presented new research results in this fruitful area. WLFM 05 was held in Newcastle upon Tyne, UK, as a co-located event of the International Conference on Formal Methods (FM 2005).

The 7 regular contributions, selected out of a total 12 submissions, cover topics such as the application of model-checking techniques for verifying Web application design and BPEL programs; the use of formal specification languages such as Object-Z to design XML queries evaluation systems; formal models of Web services processes; and interpreting SWRL using RDF graphs. Jeremy Carroll of HP Labs gave an invited, keynote talk on using Formal Methods in developing Web standards.

We would like to thank the members of the programme committee for their timely reviewing and lively participation in the subsequent discussion - the quality of the contributions herein are due to their efforts and expertise. We would also like to thank BCS-FACS, the British Computer Society group on Formal Aspects of Computing Science, for their financial support.

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